

#### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION III CENTRAL REGIONAL LABORATORY 839 BESTGATE ROAD ANNAPOLIS, MARYLAND 21401

301-224-2740 FTS-922-3752

DATE

**FROM** 

February 12, 1985

SUBJECT:

Analytical Results, EP Toxicity Testing Tonolli Corporation (PAD 073613663)

Gerard W. Crutchley Bwc.

Engineering Technician (3ES14)

TO

: Peter Schaul

Chief, RCRA Enforcement Section (3HW11)

THRU:

Leo J. Clark

Chief, Annapolis Field Section (3ES14)

Enclosed are the analytical results from the samples collected during the September 27, 1984 RCRA sampling inspection conducted at the Tonolli Corporation.

Six samples (three liquid, one sludge, and two soil) were collected for EP Toxicity analyses. The three liquid samples were preserved in the field with nitric acid to a pH of less than 2 and therefore could not be analyzed for the EP Toxicity criterion. However, the liquid samples were analyzed for their total metals concentrations. As noted in the enclosed data, two of the liquid samples could be EP Toxic, but two soil samples were EP Toxic for lead with values of 79.2 mg/L and 246 mg/L and the sludge sample and one soil sample were EP Toxic for cadmium with values of 2.93 mg/L and 6.7 mg/L.

Should you have any questions regarding these results, please contact this office.

Enclosure a/s

GWC:tlb





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REGION III
CENTRAL REGIONAL LABORATORY
839 BESTGATE ROAD
ANNAPOLIS, MARYLAND 21401

301-224-2740 FTS-922-3752

DATE

February 4, 1985

SUBJECT:

Metals Determinations of Tonolli Corp. Samples, 840928-01 - 06, (RCRA), following Extraction by the EP Toxicity Test Procedure

FROM

B. A. Sammons

Chemist

Bettina B. Fletcher \$657 Environmental Scientist

TO

: Daniel K. Donnelly

Chief, Annapolis Laboratory

THRU:

E. Ramona Trovato

Team Leader, Inorganic Analysis Section

Samples 840928-01 - 06 were extracted in accordance with the extraction procedure (EP) for toxicity testing as specified on pages 33127 and 33128 of the Federal Register, Volume 45, No. 98, Monday, May 19, 1980. The extracts were quantitatively analyzed by flame, furnace, and cold vapor atomic absorption spectroscopy. The results are presented in the attached table.

Additional quality control data are available upon request.

### Sample Description:

Lab No.	<u>Description</u>
840928-01 -02 -03 -04 -05 -06	Tonolli Corp., wastewater from surface imp., T-1 Tonolli Corp., wastewater at scrubber pit, T-2 Tonolli Corp., sludge from treatment process, T-3 Tonolli Corp., soil from area above storage yd., T-4 Tonolli Corp., soil from area adjacent to storage yd., T-5 Tonolli Corp., standing water from paved area adj. to battery crusher, T-6
	Property 1-0

The following samples were digested and no EP Toxicity performed because the liquid samples were preserved in the field.

840928-01

-02

-06

BAS: ad

cc: P. J. Krantz QAO, CRL

U.S. Environmental Protection Agency, Region III, Central Regional Laboratory

Project Name: Tonolli Corp RCRA	olli Corp RCR	. <b>A</b>	,				
Sample Number:		840928-01 ug/L	840928-02 ug/L	840928-03 ug/L	840928-04 ug/L	840928-05 ug/L	840928-06 ug/L
METALS-EP TOXICITY Parameter	Maximum Concentration (ug/L)	Reported as 44th metals					
Arsenic	2,000	12,200(MSA)	26 (MSA)	5.6(MSA)	62(MSA)	5(MSA)	(ASM) 64
Bartum	100,000	<b>&lt;500</b> *	<500	<500*(111%)	*00\$	<500	<200
Cadmium	1,000	15,300+0	75+6(109%)	2,930	326	6,700	5,350+58
Chromita	2,00	1,355±0(98%)	<50	51+0	<b>&lt;50</b>	<50	<b>*0</b> \$>
Lead	2,000	2,800+103	566	412	79,200±5,100	246,000	14,400(110%)
Mercury	200	2.1	0.2	<0.2	<0.2	<0.2*(98%)	<0.2
Selentum	1,000	99+7 (MSA)	61 (MSA)	6+1	<5 (MSA)	<5(MSA)	63 (MSA)
Silver	2,000	<200*	<200	<200	<200	<200	<200*(96%)

as E.P. Tomesty

WELL: #1
PROJECT:



	-	
Geology	Well Cross Sectio with water zones	n <u>Construction Details</u>
d Level	- 4" ID Pip - 8" ID Well	Location: Tonolli Corporation Nesquehoning, PA Driller: Date Started: Date Completed: Driller's file name:
		Log obtained from Tonolli Corp.  Yield: How Determined:
<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>		Total Well Depth: 350' Static Water Level:15' B.G. Date: Casings:
		Diameter Depth 4" Unknown  Grouting Details: Unknown
	TD-350'	### Water Bearing Zones:    Depths
		Water Quality:  Data provided by:  International Exploration
		577 Sackettsford Rd. Warminster, PA 18974-1398

Date: AR100049

WELL: #2 PROJECT: DER

Monitor Well

, , , , , , , , , , , , , , , , , , , ,	
GEOLOGY	Well Cross Section Construction Details with water zones
CE COAL REFUSE silt-rock fragments ale/coal REFUSE 16' V	Location: Tonolli Corp. Nesquehoning, PA  Driller: Date Started: Date Completed: 10/14/76  Driller's file name:
	Yield: 10.5 gpm  How Determined: Throttled pump to zero drawdown.  Total Well Depth: 39'  Static Water Level: 16' from Date: 10/14/76 grade.
ial clays sands and	Casings:  Diameter Depth  10" steel 0-20' 6" steel 0-20' 6" slotted 20-39'  Grouting Details: Cement from 0-20'
	Water Bearing Zones:  Depths Yield
	6" slotted steel casing exposed from 20' to 39'

Water Quality:

Data provided by: Previous Module II for site.

INTERNATIONAL EXPLORATION
577 Sackettsford Rd.
Warminster, PA
18974-1398

#3 WELL: PROJECT:

DER

Monitor Well

Well Cross Section with water zones

Cap

Construction Details

Location: Tonolli Corp.

Nesquehoning, PA.

Driller:

Date Started:

Date Completed: 10/14/76

Driller's file name:

Yield:

How Determined:

Total Well Depth:

Static Water Level:9' from grade

Date: 10/14/76

Casings:

Diameter	Depth
10" steel	0-20
6" steel	0-20'
6" slotted	20-39'

Grouting Details:

Cement

Water Bearing Zones:

Depths

Yield

face construction, it has necessary to extend the sing 8.1'. Total depth is W 47.1',

Alluvial clays, sands

and gravels.

GEOLOGY

IRFACE COAL REFUSE

Black silt-rock

COAL REFUSE

coal

fragments of shale/

9' ∇

Water Quality:

Data provided by: Previous Module

II for site.

INTERNATIONAL EXPLORAT 577 Sackettsford Rc. Warminster, PA 18974-1398

P#R100051

WELL: #7 PROJECT: DER Monitor Wel

GEOLOGY

CE COAL REFUSE

Coal Refuse

throughout.

hod at base.

ack silt-rock fragments

Well Cross Section with water zones Locking Cap

18" stick up

Static water

to 52'

6" Steel Casing

grout slope

Construction Details

Location: Tonolli Site adjacent to

No. 5 well

Driller: Odenheimer

Date Started: 12/7/83 Date Completed: 12/7/83

Driller's file name:

Yield:

How Determined:

Level 37.7' BTC Total Well Depth: 74.5 feet

Static Water Level: 37.7' BTC Date: 12/8/83 2:00 PM

Casings:

Diameter	Depth
6" Steel	0-52.0
4" PVC	0-44.5
4" PVC Screen	44.5-74.5

Grouting Details: Rubber sleeve placed on base of 6" casing. 1 bag bentonite poured down annulus followed by cement Water Bearing Zones:

Depths Yield @ 45' Possible perched water, dry above this level. 60'-74.5'- Well cuttings damp but no immediate flow of water from hole.

Possible perched water coal refuse was dry when first penetrated. Sample not collected.

Water Quality:

Data provided by: Philip Getty



INTERNATIONAL EXPLORATION 577 Sackettsford Rd. Warminster, PA 18974-1398

Date: 12/7/83

AR100052

50' Brown clay with sand rounded peoble layers, m cobbles. ALLUVIAL OSITS.

90' Gravels 1-1" diameter with orange-brown silty clay matrix. Cuttings balling up but dry. Some cobbles encountered.

18' length Cement grout to surface

> - Steel casing with rubber annular ring and bentonite seal.

Some sand inserted around annulus of PVC screen.

> 20 slot 4" PVC screened. Casing exposed from 52.0' to 74.51

4" PVC Casing to 74.5'

Hole caved from 74.51 to 901 before casing inserted. TD 90'

WELL: #8

PROJECT: DER Monitor W

GEOLOGY

42' Black silt-rock fragments

Surface Coal Refuse

of Coal Refuse.

Dry throughout.

42'-75' orange-brown silty

Alluvium.

layers within.

clay, pebble and cobble

Well Cross Section with water zones

- Locking Cap

Sloped Grout

Cement grout inserted in annulus from surface.

> 6" steel casing to 45.5' 18' lengths

· Cement grout inserted prior of steel casing Date:

Static water ... level 32.5' BTC

- Sand pack . placed along outside of PVC
- Rubber annular ring on steel casing and bentonite seal
- 20 slot PVC 4" screened casing exposed from 45.5 to 48.6'.

Drilled 6" hole to 75'. Hole collapsed to 48.6' before casing was inserted. TD-75'

#### Construction Details

- 1.5' of stick up Location: Tonolli Site approx.

90' east of Well #6

Driller: Odenheimer

Date Started: 12/8/83 Date Completed: 12/8/83

Driller's file name:

Yield:

How Determined:

Total Well Depth:

to installation Static Water Level:32.5' BTC 12/8/83 @ 1:30 PM :

Casings:

Diameter	Depth
6" steel	0-45.5
4" PVC	0-28.6
4" screened	28.6' - 48.6'

Grouting Details: Drilled 82" hole to 47'. Inserted 1 bag of bentonite then cement sufficient to fill lower 25' of hola Water Bearing Zones:

Depths Yield Water first encountered at base of coal refuse (421) Possible artesian condition as coal refuse was dry down to base yet water level in well rose above base.

Water Quality: Sample not collect

Data provided by: Philip Getty



INTERNATIONAL EXP 577 Sackettsforu Rc Warminster, PA

Date ARIO0053

W£LL: #9 PROJECT: DER Monitor

WELL DEPTH (ft)

10'

10-11.6' Brown silty-clay some gray mottling.

Well Cross Section GEOLOGY with water zones Locking Cap 2.3' Stickup Surface of Coal Refuse 0-10' Black silt and rock fragments of Coal Refuse Cement Grout - 6" Steel Casing to 4.7' 20 slot 4" PVC exposed from Perched Water 1.6' to 11.6'

> Sump dug l'x' into clay, filled with sand

Sand pack

# Construction Details

Location: Tonolli Site approx.
90' ESE of Well #3
Driller: Topolli

Driller: Tonolli Date Started: 12/7/83 Date Completed: 12/8/83

Driller's file name: Well installed by backhoe

Yield: How Determined:

Total Well Depth: 11.6'

Static Water Level: 13.4' BTC Date: 12/8/83 @ 1 PM

Casings:

Diameter	Depth
6 Steel	0-4.7'
A" PVC	0-1.6'
4" Screened PVC	1.6'-11.6'

Grouting Details:

Cement poured around upper light of casing and sloped.

Water Bearing Zones:

Depths Yield
Perched water resting upon clay layate 10'.

Water Quality: Sample collected from open pit 12/7/83. Data provided by: Philip Getty



INTERNATIONAL EXPLORATION 577 Sackettsford Rd. Firminster, PA 18974-1398

AR

12/8/82

**NVIRONMENTAL PROTECTION AGENCY** Office of Enforcement

Curtis Bidg., 6th & REG

Philadelphia, Pennsylvan. Received by: (Signature) Received by: (Signature) REMARKS #,2 Tad 3-20662 3-20663 3-20664 3-20665 3-20666 Date / Time Date / Time 3-2066 Sample Remarks Relinquished by: (Signeture) Relinquished by: (Signewre) 5.250 CHAIN OF CUSTODY RECORD Date /Time `;`~ ٨ X X X TAINERS Ś Š 6 Kydee Received for Laboratory by: (Signature) Received by: (Signature) ion over about storage up Received by: (Signature) from teating 1 process Wastewater from Such a Somo. X Wastewate it Scribba Pix J. W. medily CORPORATION STATION LOCATION formas, Standing water 0500 1/22/ Date / Time Date / Time Date / Time 3 5 Queto Soll 1. William TONOLLI SAMPLERS: (Signatura) Dugan × GRAB Grand W. Cathill PROJECT NAME COMP elinquished by: (Signature) ellyquished by: (Symeture) elinquished by: (Signeture) 1205 1227 1234 AMIL 1/27/kw 1605 DATE PROJ. NO. 136 STA. NO. 55 300 15 1-4 152 7+3 11

Iribution: Original Accompanies Shipment; Copy to Coordinator Field Files